

Appl. No. 10/604,253
Amtd. dated March 11, 2005
Reply to Office action of January 11, 2005

Amendments to the Specification:

Please replace paragraph 0014 with the following amended paragraph:

According to the claimed invention, a printing apparatus ~~includes~~ apparatus includes a printhead for ejecting ink from a plurality of nozzles. The printhead contains a substrate
5 and ~~a~~ and a plurality of heaters arranged on the substrate for heating ink in the printhead to generate bubbles in the ink and eject the ink through the corresponding nozzles. The printing apparatus also includes a signal generator for generating printing pulses and non-printing pulses used to control the heaters, the printing pulses controlling the heaters to generate sufficient heat energy to eject ink from the nozzles for printing data, and the
10 non-printing pulses controlling the heaters to generate heat energy that is not sufficient to eject ink from the nozzles for raising a temperature of the ink; a print data comparator for comparing a percentage of data printed during a predetermined period of time with a threshold value; ~~and a~~ and a control circuit for varying the non-printing pulses generated by the signal generator according to the percentage of data printed during the
15 predetermined period of time and the threshold value.

Please replace the Abstract of the invention with the following:

A printing apparatus ~~includes~~ apparatus includes a printhead for ejecting ink from a plurality of nozzles and a signal generator for generating printing pulses and non-printing
20 pulses used to control heaters. The printing pulses control the heaters to generate sufficient heat energy to eject ink from the nozzles for printing data, and the non-printing pulses control the heaters to generate heat energy that is not sufficient to eject ink from the nozzles for raising a temperature of the ink. The printing apparatus also includes a print data comparator for comparing a percentage of data printed during a predetermined

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period of time with a threshold value, ~~and~~ a and a control circuit for varying the non-printing pulses generated by the signal generator according to the percentage of data printed during the predetermined period of time and the threshold value.